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(54) Title: HYBRID AND CHIMERIC POLYPEPTIDES THAT REGULATE ACTIVATION OF COMPLEMENT

(57) Abstract: A hybrid complement-regulating protein comprises a first functional unit of a first complement regulatory protein having complement regulating properties, a first spacer sequence of at least about 200 amino acids encoding a polypeptide that does not exhibit complement regulating properties and at least a second functional unit attached to the spacer sequence. The second functional unit may be a polypeptide providing a functional unit of a second complement regulatory protein, a polypeptide derived from an immunoglobulin, or a polypeptide that enhances binding of the protein to an animal cell. The hybrid protein may also contain a second spacer sequence and a third functional unit of a complement regulatory protein, a polypeptide derived from an immunoglobulin, and a polypeptide that enhances binding of the protein to an animal cell. The optional third functional unit may be the same or different from the first or second functional units.



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